

METHOD AND APPARATUS FOR AGGREGATION OF
WIRELESS RESOURCES OF PROXIMAL WIRELESS
UNITS TO FACILITATE DIVERSITY SIGNAL COMBINING

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Abstract Of The Disclosure

10 A group of independent wireless apparatus (106a-106n) in a wireless local
area network are identified and coordinated (aggregated) using the short-range
wireless area network (wireless LAN). Each wireless apparatus receives information
from a wireless wide area network (wireless WAN) such as a conventional cellular
system. The plurality of independent proximal wireless apparatus (106b-106n)
15 receive the same information that is ultimately destined for one of the wireless
apparatus in the proximal group in the wireless local area network. Each proximal
wireless apparatus (106b-106n) that has received the same information from the wide
area network then retransmits or forwards the same information to the destination
wireless apparatus (106a). Accordingly, the plurality of wireless apparatus in the local
20 area network receive the same information from a wide area network and forward it,
using the short range wireless communication system, to a destination wireless
apparatus in the local area network. The destination wireless apparatus (106a)
optimally combines the information to improve its reliability of detection.